

**Notice of Allowability**

Application No.

10/648,038

Examiner

Mujtaba K. Chaudry

Applicant(s)

ANDREEV ET AL.

Art Unit

2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/24/2007.
2. ☒ The allowed claim(s) is/are 1-9 and 21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
GUY LAMARRE  
PRIMARY EXAMINER

### REASONS FOR ALLOWANCE

Claims 1-9 and 21 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 1 of the present application teaches, for example, a parallel turbo decoder comprising: an interleaver memory comprising  $n$  interleaver memory outputs; a routing multiplexer, comprising:  $n$  multiplexer inputs coupled to the  $n$  interleaver memory outputs;  $p$  multiplexer outputs based on a selected permutation of the  $n$  multiplexer inputs, where  $p$  and  $n$  are integer variables and  $n \geq p$ ; and a plurality of modules arranged in an array of interconnected rows, each module having a first and second inputs, first and second outputs and a control input and arranged to supply signals at the first and second inputs to the first and second outputs in a direct or transposed order based in a value of a control bit at the control input, the array comprising a first row formed by a first group of  $p/2$  of the modules of which the first and second inputs are each coupled to a respective one of the  $n$  multiplexer inputs and a last row formed by a second group of  $p/2$  of the modules of which the first and second outputs are each coupled to a respective one of the  $p$  multiplexer outputs; and a memory containing a plurality of control bit tables each containing a plurality of control bits in an arrangement based on a respective permutation, the memory being responsive to the selected permutation to supply the plurality of control bits of the control bit table that corresponds to the selected permutation to the respective control inputs of the modules. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...a memory containing a plurality of control bit tables each containing a plurality of control bits in an

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arrangement based on a respective permutation, the memory being responsive to the selected permutation to supply the plurality of control bits of the control bit table that corresponds to the selected permutation to the respective control inputs of the modules.”

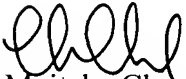
Independent claims 5 and 21 include similar limitations of independent claim 1 and therefore are allowed for similar reasons.

Dependent claims 2-4 and 6-9 depend from allowable independent claims 1 and 5 and inherently include limitations therein and therefore are allowed as well.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817. The examiner can normally be reached on Mon-Fri 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on 571-272-6962.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Mujtaba Chaudry  
Art Unit 2112  
July 12, 2007

  
GUY LAMARRE  
PRIMARY EXAMINER